



CHANGE ORDER REQUESTS and RELEASE OF RETAINAGE

Midfield Program

BOARD DATE:

July 18, 2008

| C.O.R. # | BID PACKAGE NO. | CONTRACTOR     | ORIGINAL CONTRACT AMT | THIS CHANGE ORDER REQUEST |         | CUM CHANGE PERCENT | NEW CONTRACT AMOUNT | RELEASE OF RETAINAGE | SCOPE  |
|----------|-----------------|----------------|-----------------------|---------------------------|---------|--------------------|---------------------|----------------------|--|
|          |                 |                |                       | AMOUNT                    | PERCENT |                    |                     |                      |  |
| H-0269   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 11,464.00              | 0.1%    | 13.3%              | \$ 25,123,234.24    |                      | The load requirements and placement of the TSA screening equipment in the mezzanine level of the terminal required electrical modifications, additional circuit panels and associated conduits that were in addition to that provided in the base electrical design. This change covers the additional electrical labor and material required to accomplish this work  |
| H-0270   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 22,473.00              | 0.1%    | 13.4%              | \$ 25,145,707.24    |                      | The communications room air conditioners (CRAC) units and fire alarm control panels (F.A.C.P.) in the terminal communications rooms needed to be rearranged to make room for the UPS systems and some rack mounted equipment. In doing so the electrical panel and other secondary electrical connections had to be moved and modified. This Change Order Request (COR) covers the cost of making these necessary electrical modifications             |
| H-0272   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 6,467.00               | 0.0%    | 13.5%              | \$ 25,152,174.24    |                      | The HVAC design for the airline baggage service offices (BSOs) omitted inclusion of variable air value (VAV) units, which are essential to control the climate within those spaces. This COR provides funding to purchase and install the missing units  |
| H-0273   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 18,593.00              | 0.1%    | 13.6%              | \$ 25,170,767.24    |                      | Breaker revisions and other modifications to the electrical panels were required to rectify several contractor's requests for information (RFIs) covering passenger loading bridges and associated preconditioned air, trash compactors, dock lighting and portal heaters. This PCO covers the cost of making all these circuit breaker and electrical changes.  |
| H-0274   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 2,791.00               | 0.0%    | 13.6%              | \$ 25,173,558.24    |                      | The bid design documents did not account for an elevation difference between the mechanical room floor and the outside floor. This led to a condition where there was inadequate space for a one large return air opening in the wall. To rectify this situation two smaller openings were created necessitating a move of conduit and wire in the wall. This PCO is for the electrical, HVAC controls and masonry required to make this modification. |
| H-0275   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 90,420.00              | 0.4%    | 14.0%              | \$ 25,263,978.24    |                      | This COR covers the added electrical work required due to added TSA equipment in the baggage screening area.   |
| H-0277   | H31             | Dalmatian Fire | \$ 3,986,000.00       | \$ 9,986.00               | 0.3%    | 8.5%               | \$ 4,323,651.00     |                      | The location of the installed light fixtures in the Civic Plaza created a conflict with the water cannons on the office level roof. Therefore, the water cannons on the northeast, southeast, and southwest corners of civic plaza had to be revised to be symmetrical to each other as viewed from the civic plaza floor resulting in this COR.   |
| H-0278   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 1,938.00               | 0.0%    | 14.0%              | \$ 25,265,916.24    |                      | The wrong size ground wire was specified terminal feeder panel SAH-GC. This change corrects this design error.   |
| H-0279   | H11             | Ermco/Sachs    | \$ 22,165,000.00      | \$ 9,326.00               | 0.0%    | 14.0%              | \$ 25,275,242.24    |                      | Fire protection sprinklers were omitted for two alcoves areas in the terminal (08T.101 and 12T.124). This PCO furnishes a dry pipe system with an air compressor to correct this omission.   |

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| H-0280   | H31             | Dalmatian Fire        | \$ 3,986,000.00       | \$ 14,671.00              | 0.4%    | \$ 4,338,322.00     |                      | This COR is to relocate the TSA office build-out from the South area to the North area of the Terminal Building as requested by the Owner. This change was to accommodate a request from Northwest Airlines to locate a passenger club in the area vacated by TSA  |
| H-0283   | H31             | Dalmatian Fire        | \$ 3,986,000.00       | \$ 3,110.00               | 0.1%    |                     |                      | The architect for the terminal and concourse, Aero Design Group (ADG), issued a variety of clarifications, amendments, additions, changes, modifications and deletions to the basic design drawings. Conformed Set #2. To do this they put together a fourteen   |
|          | H08             | Circle B Construction | \$ 15,660,260.00      | \$ 97,741.00              | 0.6%    |                     |                      | For consistency within certain specialty terminal systems, it was decided to place the scope of such systems contained in the airline fit-out design Package, Hb, such as fire protection, curtain wall systems etc. in the related existing terminal bid pac  |
| H-0284   | H08             | Circle B Construction | \$ 15,660,260.00      | \$ 96,157.00              | 0.6%    |                     |                      | After noticing a recessed slab was ponding and holding water it was determined some drainage measures were required. So the contractor was instructed to install two 1-1/2" core drills thru the Level 3 slab on metal deck then install open sign drain and drain lines from these core drills. Work shall be performed on a time and material basis and shall include removal of work instructed by the CM.      |
|          | H49             | Honeywell             | \$ 1,895,763.00       | \$ 44,077.00              | 2.3%    |                     |                      | Due to a design omission in the wiring for the electric heaters in each gate portal of the Concourse the circuits and feeds had to be significantly rearranged. This required adding 20 amp single pole breakers and extensive wiring between the last two electrical closets on Level 2 in each Concourse.  |
| H-0285   | H30             | North Mechanical      | \$ 7,683,000.00       | \$ 16,200.00              | 0%      | \$ 8,392,470.00     |                      | The airline tenants requested two (2) new operational interior stairs, one in Concourse A and the other in Concourse B. The stairs are not required fire egress routes and are provided for the use of airline personnel to conduct their operations and gate activities more efficiently.   |
| H-0286   | H11             | Ermco/Sachs           | \$ 22,165,000.00      | \$ 41,474.00              | 0%      | \$ 25,316,716.24    |                      | This COR provides for the additional costs the roofing contractor incurred due to the steel incident. The delay costs are for additional overhead and General Conditions directly related to additional time added to the schedule. This cost was submitted to the insurance carrier.  |
| H-0287   | H19             | Poynter Sheetmetal    | \$ 9,445,000.00       | \$ 58,325.00              | 1%      | \$ 10,060,230.00    |                      | Major redesign was required to solve some serious conflicts with the proposed drainage pipe between structures SE-1 and the North Collector Channel. This included a special 78 inch elliptical reinforced concrete pipe to meet the tight clearances required.  |
| H-0288   | H12             | Roberts Roofing       | \$ 4,806,000.00       | \$ 151,623.00             | 3%      | \$ 5,449,560.00     |                      | The rental car refueling area in the quick turnaround area (QTA) was not to the rental car agency's requirements because it lacked a redundant 2" fuel supply pipe from the Tank Farm to Areas 3, 4, and 5. It also was requested to change the fuel tank manway from plastic to fiberglass. These changes will be included in the rental car concession agreement and will be recovered through rates and charges |
| RH-0007  | RH1             | Milestone Contractor  | \$ 11,382,951.52      | \$ 281,714.59             | 2.5%    | \$ 13,093,106.89    |                      |  |
| R-0011   | T47             | HIS Contractors       | \$ 2,375,000.00       | \$ 75,746.25              | 3%      | \$ 2,611,060.25     |                      |  |

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| T-0180   | T43             | Tom's Landscaping    | \$ 1,665,600.00       | \$ 101,750.00             | 6%      | \$ 1,877,950.00  | 13%     | \$ 1,877,950.00     |                      | The planned landscaping scope at the garage was determined to be inadequate to support vegetation growth. To correct this situation this PCO was established to remove of 6" of unsuitable soil (6,000 CY) on the eastside of parking garage and replace it with topsoil.   |
| T-0183   | T23             | Ermco/Sachs          | \$ 6,960,000.00       | \$ 273,432.00             | 4%      | \$ 8,311,352.00  | 19%     | \$ 8,311,352.00     |                      | To meet schedule the parking revenue control system (PARCS) building was designed before the all the revenue control system design-builder, Amamo, system requirements were known. Once this information was made available many electrical/communication changes were required including conduit extensions, modification to wiring, power and conduit to control gate locations and at the helical ramps and at the speed ramp and the garage third level return road. Some of this was due to fast track (schedule) coordination and some was due to designer omissions. |
| T-0184   | T21             | General Piping, Inc. | \$ 3,519,000.00       | \$ 29,125.00              | 1%      | \$ 3,810,020.34  | 8%      | \$ 3,810,020.34     |                      | Elevator mechanical rooms were required to be insulated and have HVAC to the to meet Leadership in Energy and Environmental Design (LEED) requirements. The designer overlooked this requirement in the design bid documents and this PCO corrects this omission and is for the associated HVAC mechanical work.  |
| T-0185   | T23             | Ermco/Sachs          | \$ 6,960,000.00       | \$ 28,139.00              | 0.4%    | \$ 8,339,491.00  | 19.8%   | \$ 8,339,491.00     |                      | There was a need to insulate and provide HVAC to the elevator mechanical rooms to meet Leadership in Energy and Environmental Design (LEED) requirements. The designer overlooked this requirement in the design bid documents and this PCO corrects this omission and is for the associated HVAC electrical work.  |
| T-0186   | T21             | General Piping, Inc. | \$ 3,519,000.00       | \$ 19,874.00              | 1%      | \$ 3,829,894.34  | 9%      | \$ 3,829,894.34     |                      | This COR adds water lines above the Rental Car Agency offices. The base design was considered inadequate by the rental car representative so taps had to be added to each office to facilitate multiple tie-ins at various times.   |
| T-0187   | T20             | FA Wilhelm           | \$ 27,160,000.00      | \$ 2,582.00               | 0.01%   | \$ 29,308,829.00 | 8%      | \$ 29,308,829.00    |                      | The bid design documents were determined to not provide sufficient structural support for the terminal doors. This COR corrects this error by installing steel angles to the sides of the beams above the west vestibule doors to provide anchors for the automatic doors.  |
| T-0188   | T20             | FA Wilhelm           | \$ 27,160,000.00      | \$ 51,617.00              | 0%      | \$ 29,360,446.00 | 8%      | \$ 29,360,446.00    |                      | This COR corrects a previously mistaken understanding that the millwork for the Limousine Counters located on the first level of the GTC was to be provided by the Limo Companies. It will in fact be part of the IAA fit out of this area.   |
| T-0189   | T21             | General Piping, Inc. | \$ 3,519,000.00       | \$ 18,367.00              | 1%      | \$ 3,848,261.34  | 9%      | \$ 3,848,261.34     |                      | This COR corrects the bid documents that showed only one exhaust line running from an electrical generator. There is a requirement for two exhaust lines with two mufflers.   |
| T-0190   | T20             | FA Wilhelm           | \$ 27,160,000.00      | \$ 2,059.00               | 0%      | \$ 29,362,505.00 | 8%      | \$ 29,362,505.00    |                      | The north and south walls of the GTC Fire Riser Room and Manager's Office do not precisely meet the west curtain wall system so a gap was left that needs to be closed off. This COR provides the matching metal to that of the curtain wall to close this gap.   |

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| T-0192   | T21             | General Piping, Inc. | \$ 3,519,000.00       | \$ 61,181.00              | 2%      | \$ 3,909,442.34    |                     | Several design changes that have occurred near the end of the T21 bid package completion. Therefore the contractor had understandably requested extended general conditions (GC) costs in the form of a time extension change order. The construction manager (CM) has reviewed this request and negotiated with the contractor a 188 day extension of general conditions for the equivalent cost of two months worth of GC costs. This will apply to a specified number of Potential Change Orders (PCOs) included in this COR and any other PCOs that may arise during this time extension. |       |
| T-0193   | T37             | Evans Development Co | \$ 3,391,000.00       | \$ 80,776.00              | 2%      | \$ 3,614,448.97    |                     | The designer of the parking control conduit runs to the exit plaza mistaken noted on the bid documents they were to be provided "by others" when in fact the scope should have been included in the bid. This COR corrects this designer omission.  |       |
| T-0194   | T38             | Amano Cincinnati     | \$ 2,717,338.71       | \$ 243,897.60             | 9%      | \$ 2,918,499.06    |                     | This COR provides a Commercial Ground Transportation Lane Automated Vehicle Identification (AVI) System to automatically keep track of this vehicle traffic for revenue collection purposes.  |       |
| T-0196   | T29             | Gradex, Inc.         | \$ 16,585,186.39      | \$ 186,250.00             | 1%      | \$ 17,357,969.82   |                     | In the final balancing of the costs for the base in the main parking lots the contractor determined they were short by 5,000 tons of material. They discovered that the initial calculations had neglected to account for the bus lanes, which was the primary reason for the discrepancy. This addition was calculated at bid unit costs so there was no premium paid for omitting this in the initial calculations.   |       |
| T-0198   | T23             | Ermco/Sachs          | \$ 6,960,000.00       | \$ 6,290.00               | 0%      | \$ 8,345,781.00    |                     | This COR provides two (2) ambient noise sensors and ambient sensor collectors within the garage/GTC PA system. These sensors ensure the amplitude of the PA system is automatically adjusted to account for variations in the ambient noise level. This change will be make the garage PA system consistent with the terminal, which had ambient noise sensors in base bid.   |       |
| T-0199   | T23             | Ermco/Sachs          | \$ 6,960,000.00       | \$ 4,304.00               | 0%      | \$ 8,350,085.00    |                     | This COR provides the rough-in consisting of 3/4" conduit and quad electrical boxes to the two planned locations of electronic Information Display Boards at each end of the Ground Transportation Center (GTC) in the garage.  |       |
|          | T15             | Walsh Construction   | \$ 7,066,829.30       |                           |         |                    | \$ 1,695.00         |   |       |